

## CLAIMS

1. A method of combining, comprising:
  - outer encoding a set of bits;
  - distributing a first subset of the outer encoded bits to a first station;
  - distributing a second subset of the outer encoded bits to a second station;
  - inner encoding the first subset of outer encoded bits, thereby creating a first subset of inner encoded bits;
  - inner encoding the second subset of outer encoded bits, thereby creating a second subset of inner encoded bits;
  - modulating the first subset of inner encoded bits, the modulating creating a modulated first subset of inner encoded bits ;
  - modulating the second subset of inner encoded bits, the modulating creating a modulated second subset of inner encoded bits;
  - transmitting the modulated first subset of inner encoded bits to a third station;
  - transmitting the modulated second subset of inner encoded bits to the third station;
  - demodulating the modulated first subset of inner encoded bits, the demodulating creating a demodulated first subset of bits;
  - demodulating the modulated second subset of inner encoded bits, the demodulating creating a demodulated second subset of bits;
  - inner decoding the demodulated first subset of bits;
  - inner decoding the demodulated second subset of bits; and
  - combining the inner decoded first subset of bits with the inner decoded second subset of bits, thereby creating a combined set of bits.
2. The method of claim 1, further comprising outer decoding the combined set of bits.
3. The method of claim 1, wherein the first station and the second station are base stations.

4. The method of claim 1, wherein the third station is a subscriber station.
5. The method of claim 1, wherein the combining is performed based on an apriori rule indicating the first subset of bits and the second subset of bits.
6. The method of claim 1, wherein the combining is performed based on an signaling from the first station and the second station to the third station, the signaling from the first station indicating the first subset of bits and the signaling from the second station indicating the second subset of bits.
7. The method of claim 1, wherein the first station transmits the modulated first subset of inner encoded bits to a third station based on a communication resource.
8. The method of claim 7, wherein the communication resource is power.
9. The method of claim 7, wherein the communication resource is a number of Walsh codes available for transmission.
10. The method of claim 7, wherein the communication resource is transmission time availability
11. The method of claim 1, further comprising determining the first subset of bits and the second subset of bits based on the available communication resources of the first station and the available communication resources of the second station.
12. The method of claim 11, further comprising reporting available communication resources of the first station and the second station to a fourth station, wherein the fourth station determines the first subset of bits and the second subset of bits.
13. The method of claim 11, wherein the transmitting is on a forward data packet channel.

14. The method of claim 13, wherein the third station determines how many bits were transmitted from the first station based on information on a forward data packet control channel from the first station and determines how many bits were transmitted from the second station based on information on a forward data packet control channel from the second station.